
Don Wignall

PROFESSION: Transport Consultant

QUALIFICATIONS: Master of Science; Transportation and Traffic Planning; University of Birmingham (UK)

Master of Civic Design; Town Planning, University of Liverpool (UK)

Member of the Royal Town Planning Institute (30 yrs)

Member Chartered Institute of Logistics and Transport (43 yrs)

Summary

Experience in transport planning, project development and assessment (NZ, Australia, UK, Europe and USA) national, regional and local scales, for government ministries, national agencies, regional organisations, territorial authorities, public bodies, transport operators and developers:

2003 – 2022: Transport Consultant, Transport Futures Limited (NZ) <http://transportfutures.co.nz/>

- Peer Review of research project 'Climate Change: interventions to reduce land transport greenhouse gas *emissions*' (Waka Kotahi, 2022).
- Transmission Gully motorway road tolling modelling and feasibility analysis, using SATURN, including publication of results at ATRF see references (NZTA, 2020/21).
- Development of Public Transport evaluation section of the Monetised Benefits and Costs Manual, EEM refresh (NZTA, 2019/20)
- Peer review of Transmission Gully SH1 readiness project to forecast 'day one' impacts, including review of modelling assumptions, methodology and outputs for a large complex regional network, involving the use of strategic and localised detailed models (NZTA, 2019/20).
- Preliminary assessment of international mass transit (BRT and LRT) success factors, public transport research scoping project (NZTA, 2018/19).
- Post-implementation reviews: transport consultant for 24 transport projects throughout NZ, (capital value \$2.4b including assessments of forecasting accuracy and measurement of performance against objectives. Specific projects; included: *Public Transport:* Auckland Northern Busway, Auckland Real Time Passenger Information, Auckland Integrated Fare Systems. *Road Projects:* SH1 Alport B2 Auckland Northern Motorway Toll Road, SH1 Victoria Tunnel (Auckland), SH20 Manukau Harbour Crossing and Motorway Extension, including publication of results at ATRF https://www.australasiantransportresearchforum.org.au/sites/default/files/ATRF2017_031.pdf (NZTA, 2012-16).
- Peer reviews for research projects, topics included: integrated land use and transport planning, bus policy model development, public transport parameter values, economic evaluation of public transport services, park and ride evaluation, operational network evaluation (NZTA, 2008-16).
- Wellington Rail Plan Programme Business Case, economic appraisal of long-term future scenarios (\$6.7b to \$12.2b) taking account of upper and lower demand growth ranges, authorship of economics chapter and appendix (GWRC, 2021/22).
- Wellington Rail ECTS Signalling Indicative Business Case, for improvement options (\$160m TO \$620m) economic appraisal, authorship of economics chapter and appendix (KiwiRail, 2020/21).
- Major new residential assessment using the KTM4 district-wide SATURN model, testing future network improvement options, alternative demand matrices and analysis of changes to traffic volumes, travel times and origin/destination patterns for 3,000 dwellings at Kāpiti Airport / Quarter (KCDC, 2021/22).
- Development of integrated transport assessment guidelines for the District Plan, including liaison with Waka Kotahi (UHCC, 2021/22).
- Plan Change 50 assessment of transport effects and provisions. Upper Hutt SATURN and SIDRA modelling for Plan Change 50 (UHCC, 2021).
- Kenepuru Programme Business Case, multi-modal area-wide transport network improvements (capital value \$36m) in response to Transmission Gully motorway opening and major new developments, economic appraisal and authorship of PBC economics chapter (PCC, 2020/21).

- Comprehensive Area Studies (City Centre, Kenepuru, Eastern Porirua) and Corridor Assessments (for Kenepuru Drive, Raiha-Prosser, Whitford Brown Avenue) multi-modal and development planning assessments, capacity assessments, conceptual design, economic appraisal and reporting (PCC, 2018-2021).
- High Court expert witness evidence review and brief of evidence preparation / submission of transport effects in the context of private parking ownership in Wellington (Commerce Commission, 2019).
- Authorship of book chapter, *'Developing Bus Rapid Transit: The Value of BRT in Urban Spaces'*, Chapter 4, Edward Elgar, 2019).

Transportation Planning Partnership, Partner (UK) 1996-2017

Allott Transportation, Technical Director (UK) 1988 – 1996

City of Birmingham, Transportation Policy Team Leader (UK) 1986 – 1988

Merseyside County Council, Principal Officer (UK) 1978 – 1986

Brian Colquhoun & Partners, Consulting Engineers (UK) Transport Planner 1976 – 1978:

Other Appointments

Transport Users Consultative Committee for North-West England (1982-94)

Royal Town Planning Institute; National Transport Panel Member; (1995 - 99) Expert Advisor (1999 – 2005)

Publications/Papers

- **The Development of Rail Path Modelling, Corridor Capacity Assessment**, Australasian Transport Research Forum, Adelaide, 28-30 September 2022, <http://www.atrf.info>
- **Assessing Toll Road Demand in New Zealand**: Australasian Transport Research Forum 2021 Proceedings 8-10 December, Brisbane, Australia Publication website: <http://www.atrf.info>
- **Developing Bus Rapid Transit: The Value of BRT in Urban Spaces** (book), Chapter 4, Elgar, 2019
- **Economic Re-evaluation of New Zealand Transport Investments**, Australasian Transport Research Forum, November 2017 <http://www.atrf.info> https://www.australasiantransportresearchforum.org.au/sites/default/files/ATRF2017_031.pdf
- **Auckland Northern Busway Retrospective: Updated Review of Impacts**, Australasian Transport Research Forum 2017 Proceedings, November 2017 <http://www.atrf.info>
- **Implications of Road Investment**, NZTA Research Report 507, <http://www.nzta.govt.nz/resources/research/reports/507/> November 2012
- **Northern Busway Review**, NZTA, <http://www.nzta.govt.nz/planning/monitoring/audits/docs/northern-busway-review-report.pdf> May 2012
- **The value of public transport – option values and non-use values**, NZTA Research Report 471, <http://www.nzta.govt.nz/resources/research/reports/471/> January 2012
- **Regional transport targets for sustainable transportation in New Zealand**, NZTA Research Report 385, <http://www.nzta.govt.nz/resources/research/reports/385/> November 2009
- **National Transport Model Development: Relating transport forecasts to economic performance**, Australasian Transport Research Forum, http://www.atrf.info/papers/2009/2009_Furnish_Wignall.pdf September 2009
- **Identifying the Economic Value of Rail Services: Issues in Transport Assessment and Evaluation**: Australasian Transport Research Forum, http://www.atrf.info/papers/2009/2009_Boulter_Wignall.pdf September 2009
- **Making the most of models: The use of modelling to support the development of more effective transport policies and strategies**, VTPI, http://www.vtpi.org/FerWig_Modelling.pdf July 2009
- **Big picture transport planning: When precision fails and approximation succeeds**: Operational Research Conference, Victoria University, November 2008 http://orsnz.org.nz/conf43/content/ORSNZ08_conference_proceedings.pdf
- **Strategic modelling choices: The role of policy modelling in New Zealand**: IPENZ Model User Group Meeting, October 2008
- **Identifying the value of long-distance rail services: Current issues in assessment and evaluation**: VTPI, http://www.vtpi.org/rail_evaluation.pdf May 2008